US005709976A

United States Patent [19]

Malhotra

[11] Patent Number: 5,709,976

[45] Date of Patent: Jan. 20, 1998

[54] **COATED PAPERS**

[75] Inventor: **Shadi L. Malhotra**, Mississauga, Canada

[73] Assignee: **Xerox Corporation**, Stamford, Conn.

[21] Appl. No.: **656,814**

[22] Filed: **Jun. 3, 1996**

[51] **Int. Cl.**[6] **B41M 5/00**; B41J 2/01

[52] **U.S. Cl.** **430/124**; 347/105; 428/195; 428/211; 428/215; 428/216; 428/423.1; 428/481; 428/484; 428/488.1; 428/511; 428/521; 428/522; 430/126

[58] **Field of Search** 428/195, 211, 428/215, 216, 423.1, 481, 484, 488.1, 511, 521, 522; 347/105; 430/124, 126

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,734,336	3/1988	Oliver et al.	428/537.5
5,053,268	10/1991	Ehara et al.	428/215
5,223,338	6/1993	Malhotra	428/342
5,302,249	4/1994	Malhotra et al.	162/135
5,457,486	10/1995	Malhotra et al.	347/105
5,472,757	12/1995	Ogawa et al.	428/195

Primary Examiner—Pamela R. Schwartz
Attorney, Agent, or Firm—E. O. Palazzo

[57] **ABSTRACT**

Disclosed is a coated paper which comprises (a) a substrate; (b) a hydrophobic barrier layer comprised of a water insoluble component and a water or alcohol soluble anticurl agent, said hydrophobic barrier layer being present on both sides of the substrate; (c) image receiving coatings situated on the top of both hydrophobic barrier layers, said image receiving coatings being suitable for receiving images of an aqueous ink, said coatings comprising (1) a polymeric binder, (2) a dye fixative, (3) a pigment, (4) a lightfastness inducing agent, and (5) a biocide. In another embodiment, the present invention is directed to a coated paper which comprises (a) a substrate; (b) a hydrophobic barrier layer comprised of a water insoluble component, and a water or alcohol soluble anticurl agent, said hydrophobic barrier layer being present on both sides of the substrate; (c) image receiving coatings situated on the top of both hydrophobic barrier layers, said image receiving coatings being suitable for receiving images developed with electrostatic toner compositions, said coatings comprising (1) a polymeric binder, (2) an antistatic agent, (3) a lightfastness inducing agent, (4) a pigment, and (5) an optional biocide.

27 Claims, No Drawings